

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Michael J. Branson, et al.	Examiner:	Haoshian Shih
Serial No.:	10/687,291	Group Art Unit:	2173
Filed:	October 16, 2003	Docket:	ROC920030263US1
Title:	Moving Data Between Views	Confirmation No.:	8981

DECLARATION UNDER 37 CFR § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We, Michael J. Branson, George F. DeStefano, Gregory R. Hintermeister, and Andrew J. Streit, declare and say as follows:

1. We are inventors of all claims of the above-identified patent application.
2. Prior to June 4, 2003, the international filing date of WO 03/104966 A3, to Gegner et al., cited by the Examiner, we conceived and reduced to practice, in the United States, the above-identified and claimed invention. As factual evidence of conception and reduction to practice prior to June 4, 2003, attached hereto and incorporated by reference herein, are Exhibit A and Exhibit B.
3. Exhibit A is an invention disclosure document of International Business Machines Corporation, assignee of the above-identified application, numbered "ROC8-2003-0411" and entitled "Method to Move Content Between UI Views for Greater Efficiency in Management Applications," created prior to June 4, 2003. Exhibit B is the attachment "Peek View Flow.ppt," which is referenced and named on page 4 of Exhibit A as an "attached document," created prior to June 4, 2003. Exhibit A and Exhibit B describe the subject matter of the present claimed invention. For example, page 3 of Exhibit A recites: "Our invention provides the ability for an administrator to view his
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management console, view data in the main view, then press a widget on a peek view to pull the view of that data from the main view into the selected Peek view. The administrator can then work on completely different data while keeping an eye on the original data. Since the smaller 'Peek' view is still dynamic, he can see if the status changes or some state change occurs where he needs to refocus on that original data." Further, page 5 of Exhibit A illustrates a main view and a peek view.


4. Each of the dates redacted from Exhibit A and Exhibit B is prior to June 4, 2003.

5. The invention was completed and was commercially used prior to June 4, 2003, as indicated by the redacted date on page 8 of Exhibit A.

6. It is therefore respectfully submitted that the present patent application claims an invention that was conceived and actually reduced to practice prior to June 4, 2003. Thus, the Gegner et al. reference should be removed as a reference under 35 U.S.C. § 102(e).

7. We further declare that all statement made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, (18 U.S.C. § 1001), and that such willful false statements may jeopardize the validity of this application or any patent issuing therefrom.

Date: 5/20/2011



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Date: 5/23/2011

George F. DeStefano

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Date: 5/20/2011

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Date: 5/23/2011

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Disclosure ROC8-2003-0411

Prepared for and/or by an IBM Attorney - IBM Confidential

Created By Greg Hintermeister

Last Modified By Lisa Plank

Required fields are marked with the asterisk (*) and must be filled in to complete the form.

***Title of disclosure (In English)**

Method to Move Content Between UI Views for Greater Efficiency in Management Applications

Summary

Status	Submitted
Final Deadline	
Final Deadline Reason	
*Processing Location	Rochester
*Functional Area	select (30) 3C - SG - System Software Development - Judy Tenney
Attorney/Patent Professional	Grant Johnson/Rochester/IBM
IDT Team	select Rich Dietrich/Rochester/IBM Eric Baraness/Rochester/IBM Michael Branson/Rochester/IBM Bill Berg/Rochester/IBM James Carey/Rochester/IBM Scott Garand/Rochester/IBM Greg Leibfried/Rochester/IBM Gary Ricard/Rochester/IBM Bill Schmidt/Rochester/IBM Blair Wyman/Rochester/IBM Grant Johnson/Rochester/IBM
Submitted Date	
*Owning Division	select SG
Incentive Program	
Lab	
*Technology Code	450

PVT Score

Inventors with a Blue Pages entry

Inventors: Greg Hintermeister/Rochester/IBM, George DuStefano/Rochester/IBM, Andy Streil/Rochester/IBM, Michael Branson/Rochester/IBM

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Inventors without a Blue Pages entry

IDT Selection

Attorney/Patent Professional
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Response Due to IP&L

***Main Idea**

1. Background: What is the problem solved by your invention? Describe known solutions to this problem (if any). What are the drawbacks of such known solutions, or why is an additional solution required? Cite any relevant technical documents or references.
One of the trends in advanced graphical user interfaces is to provide the user with a "workspace", where multiple views can be seen at the same time. Examples can be found in visual debugger applications, systems management consoles, as well as end user web portal interfaces. In fact, web portals and portals are the latest solution to that UI trend. One common feature between most of these user interfaces is that there is usually a main view where most of the work is done, and then a number of auxiliary views that either support the main view, or provide other information the user is interested in.

Why a workspace UI?

The main reason behind providing these workspace UI's are that they are a great tool to help the user navigate through a very large data set. In systems management, there could be several systems with hundreds of lists and thousands of objects, and keeping track of the data the user cares about is critical. With a workspace, users can view the data they are most interested in the main view, and keep track of other pieces of data in the auxiliary views.

The Problem:

Many times when a user is working on something in the main view, something else interrupts him and requires his attention. The problem is that existing consoles do not provide a way to help the user keep an eye on the current content from the main view while working on this new content. What the user needs is a way to move the current view off to the side so he can keep an eye on it while working on the new content.

The other problem is that when the main view is set aside and resized so it's smaller, the content is hard to read because the view is smaller. Scroll bars are added, but many times the important information is not viewable because it has been scrolled off the visible portion of the view.

There needs to be a way to push/pull views from the main view into one of these auxiliary "Peek" views so that the user can keep an eye on the original view while he's working on new content, with the ability to toggle which content is in the main view. At the same time, there needs to be a way for the data to be condensed so that only the most important information is shown, based on the size of the auxiliary "Peek" view.

Other solutions:

- Manually resize the views so that the current content is moved to the side. However, that is cumbersome, time consuming, and makes the data in the resulting view hard to see with the smaller view.
- Offer different "skins" or "layouts" for the user. However, this takes time, and since the content is dynamic, he would most likely have to start from the beginning to put the desired content in the proper views.

2. Summary of Invention: Briefly describe the core idea of your invention (saving the details for questions #3 below). Describe the advantage(s) of using your invention instead of the known solutions described above.

Our invention solves the problem using two methods: UI Interaction and Data Manipulation

1) UI Interaction:

Our invention provides the ability for an administrator to view his management console, view data in the main view, then press a widget on a peek view to pull the view of that data from the main view into the selected Peek view. The administrator can then work on completely different data while keeping an eye on the original data. Since the smaller "Peek" view is still dynamic, he can see if the status changes or some state change occurs where he needs to refocus on that original data. Then, when he sees a status or state change of the data in the "Peek" view, he can then push the data back to the main view.

2) Data Manipulation:

When the user moves the data from the main view to the Peek view, the data is condensed. Only the most important information is shown in the Peek view compared to the main view. For example, if I have a list of jobs in the main view, it may have 10 columns of information. However, once in the Peek view, the only information I really need to see is the name of the job, and the CPU usage. If the data had not been condensed, I would

have seen the name, description, then the rest of the information would have scrolled off the view, and the smaller view would become unusable.



Behavior: See the attached document to see the behavior of the invention: Peek View Flow.ppt

3. Description: Describe how your invention works, and how it could be implemented, using text, diagrams and flow charts as appropriate. Our invention works by providing the following:

eCenter - Workspace

Home

My Tasks

Live View

Show Filter Row

Run

	Completed	Running	Qserv	Batch
<input type="checkbox"/> Run commands	Completed		Qserv	Batch
<input type="checkbox"/> Send packages	Completed		Qserv	Batch
<input type="checkbox"/> Send packages10	Running		Qserv	Batch
<input type="checkbox"/> Installing files	Completed		Qserv	Batch
<input type="checkbox"/> Run commands5	Completed		Qserv	Batch
<input type="checkbox"/> Run commands	Completed		Qserv	Batch
<input type="checkbox"/> Send packages8	Completed		Qserv	Batch
<input type="checkbox"/> Send packages10	Completed		Qserv	Batch
<input type="checkbox"/> Installing files	Completed		Qserv	Batch
<input type="checkbox"/> Run commands5	Completed		Qserv	Batch
<input type="checkbox"/> Run commands	Completed		Qserv	Batch
<input type="checkbox"/> Send packages3	Completed		Qserv	Batch
<input type="checkbox"/> Send packages10	Completed		Qserv	Batch
<input type="checkbox"/> Installing files	Completed		Qserv	Batch
<input type="checkbox"/> Run commands	Completed		Qserv	Batch

eCenter - Peek

My Tasks

Create 'test01'

OK

My Backup

OK

Run commands

OK

Run commands5

OK

Run commands

OK

eCenter - Peek

My Processes

NO

160

700

400

100

500

eCenter - Peek

Systems and Groups

System20

OK

System20

OK

Group7

OK

Home

Go

Main View

The main view is used to provide the user with the space to view all the information he needs. It could be a table with many rows and columns, or a graph with detailed information. The user can navigate in that main view to see the desired data to manage what he's responsible for. This is where

he finds the information he's interested in. The data set available is so large, that the navigation is used to keep it manageable.

Peek View

The Peek view is used to provide the user with the space to "keep an eye on things" for any data he navigates to. Once he sees a list of monitors, he can add it to a peek view to keep an eye on it, then navigate to work on his tasks. While he's working on his tasks, he'll be able to glance instantly at his list of monitors to see if anything needs his attention. Think of this as the user's "Navigation Points of Interest". It could be that he will navigate, find something interesting, add it to a peek view, then keep navigating to find something else that's interesting. When he's done navigating, he has a nice list of areas of interest he can now focus on.

Push/Pull Widgets

The Push/Pull widgets are available so the user can decide which Peek view to add the main view to. Since some environments like the web don't support drag and drop, there needed to be a simple, one-click method to move content from the main view to a peek view.

Also, there needed to be a way to have a simple, one-click method to move content from a peek view back to the main view. This is needed so that while our user is working on his list of tasks in the main view, when he sees a monitor trigger and need his attention, he can click the Push widget and immediately see the list of monitors in his main view.



Note: While this design uses simple arrows with hover help, it could be any fancy widget using any amount of artwork.

Data Tagging

The data is tagged with different levels of importance, such as "Critical", "Important", or "Optional". When data is moved from the main view to a Peek view, only the "Critical" information is shown. This results in a much friendlier dataset to be viewed in a small view. What's also nice is that the data condensing is done at the UI so when the data in the Peek view is moved to the main view, all the extra columns of information comes back

into view. This is also extensible so that depending on the size of the portlet, data tagged with different levels of importance could be viewed. A very small view could just show Critical data, whereas a medium sized portlet could show all but Optional data.

*Patent Value Tool

- * 1. Select the single most appropriate technology category for your invention from the following technologies list.
(460) PPM400 Human Interface - Front of Screen Display & User Input Systems-460 Presentation of mark-up & navigable languages

Comments

Are there any additional significant markets where the invention is likely to have impact?

☒ Yes ☐ No

Please identify them:

Any software console that needs to manage a large amount of dynamic information and data.

- *2. Have you implemented the invention (e.g., made a prototype) or otherwise shown that it is workable?

☒ Yes ☐ No

- *3. Has the subject matter of the invention or a product incorporating the invention been offered for sale, or is it likely to be offered for sale, as part of an IBM product or service?

☐ No known product plans within 2 years

☐ Maybe: GA 1-2 years away

☒ Yes: GA within 3-12 months

☐ Yes: GA within 3 months

☐ Yes; product has been announced

What product?

eCenter, and the Tivoli Web Health Console

What is the significance of the invention within the product?

☒ Improves general usability

☐ Enables a minor feature

☐ Enables a major feature

What feature?

- *4. Has the invention been commercially used (internally or externally) by IBM or another entity (e.g., included in or used to make products, or prototypes provided to a customer)?

☒ Yes ☐ No

Please tell us the prototype/product, and when the use first started or is scheduled to start:

Prototype/Product: eCenter/Tivoli Web Health Console

Date: [REDACTED]

*5. In what type of product might a competitor include the invention?

Any UI that manages a lot of data. Systems Management, Visual Development Toolkits, etc.

What competitor(s) (indicate home country of such competitors if not United States)?

Microsoft, HP, Sun,

*6. How easily can the use of the invention by a third party be detected?

☐ Undiscoverable; third party must admit use for IBM to know

☐ Difficult; e.g.: with reverse engineering or examination of available code

☐ With work; e.g.: using test cases; but not reverse engineering

☐ Easily, by running & viewing product operation

☒ Trivially; without purchase of product; e.g.: by reading product literature

*7. Is the invention applicable to a standard?

☐ Yes ☒ No

*8. Have you, or any of the other inventors, submitted this invention disclosure or a similar invention disclosure previously?

☐ Yes ☒ No

*9. Please list the invention disclosures (previously submitted or about to be submitted), products, patents, or publications that you and the other inventors feel are the most relevant to your invention (e.g., pertaining to the problem you are solving, including other solutions to the problem), be they from you or anyone else, or if not applicable, enter "None".

None

*10. Was the invention made in the course of any activity that involved any other party, be it

☒ The government

☒ A customer (such as an RFQ)

☒ A development partner

☒ An alliance

☒ Any contract activity

☒ As part of a standards setting activity

☒ Other persons not employed by IBM

☐ Yes ☒ No

*11. Have you ever disclosed your invention to anyone outside IBM, or do you plan to do so in the future?

☐ Yes ☒ No

*12. If the invention relates to a product or service that is outside the scope of your business unit, please recommend IBM business unit(s), IBM location(s) or individual(s) within IBM that you think would provide a competent evaluation of your invention:

Software Group, WebSphere, ISC

***PVT II**

All of the questions below are required and must be answered in order to calculate a PVT Score

A. Threshold Questions

*1. Operability - Is there an identifiable operable embodiment of the invention (i.e., an embodiment that has been demonstrated or that would be reasonably expected to provide the benefits of the invention)?

☐ Yes ☐ No

Reasons for above answer:

*2. Novelty- Are one or more concept(s) of the invention novel over what is already known in the literature, existing commercial products, patents, and earlier IBM invention disclosures?

☐ Yes ☐ No

Reasons for above answer:

B. Valuation Questions

*1. Adequacy of Description:

☐ Inadequate; invention unclear from description

☐ Incomplete; essential features missing

☐ Further clarification or implementation detail needed

☐ Clear and complete as is

State reason for answer:

*2. Technical contribution of invention:

☐ None

☐ Minor addition to known technology

☐ Significant addition to known technology

☐ Major advance in technology

Reasons for above answer:

*3. Describe the problem solved/benefit provided and the implementation cost of the invention compared to existing or reasonably expected

alternatives:

- ☐ Minor problem/incremental benefit - significant implementation cost
- ☐ Significant problem; substantial benefit - significant implementation cost
- ☐ Minor problem/incremental benefit - minor implementation cost
- ☐ Significant problem/substantial benefit - minor implementation cost

***4. Are any alternatives to the invention available to those wishing to avoid its use?**

- ☐ Suitable alternatives available
- ☐ Alternatives have drawbacks
- ☐ No feasible alternatives

Reasons for above answer:

***5. Describe the likelihood of use of the invention (answer each):**

- IBM's customers? ☐ Unlikely ☐ Possible ☐ Probable ☐ Definite
 IBM's suppliers/vendors? ☐ Unlikely ☐ Possible ☐ Probable ☐ Definite
 IBM's competitors? ☐ Unlikely ☐ Possible ☐ Probable ☐ Definite
 IBM? ☐ Unlikely ☐ Possible ☐ Probable ☐ Definite

Reasons for above answer:

***6. What % of third party products in the technical field will likely contain the invention?**

- ☐ < 25%
- ☐ 25-50%
- ☐ 50-75%
- ☐ > 75%

Reasons for above answer:

***7. How long is the invention likely to be used in products by IBM or others?**

- ☐ < 5 years
- ☐ 5-10 years
- ☐ 10-15 years
- ☐ > 15 years

Reasons for above answer:

*8. How easily can use of the invention by a third party be detected?

- ☐ Undiscoverable; third party must admit use for IBM to know
- ☐ Difficult; e.g.: with reverse engineering or examination of available code
- ☐ With work; e.g.: using test cases; but not reverse engineering
- ☐ Easily; by running & viewing product operation
- ☐ Trivially; without purchase of product; e.g.: by reading product literature

Reasons for the above answer, including description of how use could be detected:

Post Disclosure Text & Drawings

To add additional information related to this disclosure once it has been submitted, click the action button below and a new document will be opened for you to enter the new information. To view existing post disclosure information, double-click on the item in the list below (if there has been additional information entered), and the document will open for you to view.

Date entered Post disclosure information (comments and drawings)

Form Revised

Integrated Solutions Console

Work Items

All assigned items

Favorites

eCenter

Health view

Systems and Groups

Monitors

Tasks

My Problems

Run Task

eCenter - Health

eCenter - Health

eCenter

eCenter - Workspace

Home - My Tasks

Show Filter Row

Task	Status	Queue	Batch
Create Direct	Running	Qserv	Batch
Run Commands	Completed	Qserv	Batch
Send packages	Completed	Qserv	Batch
Send packages	Running	Qserv	Batch
Install packages	Completed	Qserv	Batch
Install packages	Completed	Qserv	Batch
Run Commands	Completed	Qserv	Batch
Send packages	Completed	Qserv	Batch
Send packages	Completed	Qserv	Batch
Install packages	Completed	Qserv	Batch
Run Commands	Completed	Qserv	Batch

Director - My Dashboard

Add to favorites

Applications (5)
My Tasks (20)

Systems and Groups (10)
Monitors (1)

Tree View

eCenter - Peak

Monitors

Mon1: OK

Mon2: OK

Mon3: OK

Mon4: OK

Home

Go

eCenter - Peak

My Processes



eCenter - Peak

Systems and Groups

System22: Attention

SysGrp2: OK

nSystem15: OK

pSysGrp3: OK

Home

Go

Work Items

All assigned items

Favorites

eCenter

Health view

Systems and Groups

Monitors

Tasks

My Problems

Run Task

eCenter - Health

eCenter - Health

eCenter

Attention

Applications (5)
Monitors (4)
My Tasks (24)

eCenter - Workspace

Home - My Tasks

Time View

Show Filter Row

System	Group	Task	Status	Batch
System1	Group1	Task1	OK	Batch
System2	Group2	Task2	OK	Batch
System3	Group3	Task3	OK	Batch
System4	Group4	Task4	OK	Batch
System5	Group5	Task5	OK	Batch
System6	Group6	Task6	OK	Batch
System7	Group7	Task7	OK	Batch
System8	Group8	Task8	OK	Batch
System9	Group9	Task9	OK	Batch
System10	Group10	Task10	OK	Batch
System11	Group11	Task11	OK	Batch
System12	Group12	Task12	OK	Batch
System13	Group13	Task13	OK	Batch
System14	Group14	Task14	OK	Batch
System15	Group15	Task15	OK	Batch
System16	Group16	Task16	OK	Batch
System17	Group17	Task17	OK	Batch
System18	Group18	Task18	OK	Batch
System19	Group19	Task19	OK	Batch
System20	Group20	Task20	OK	Batch
System21	Group21	Task21	OK	Batch
System22	Group22	Task22	OK	Batch
System23	Group23	Task23	OK	Batch
System24	Group24	Task24	OK	Batch
System25	Group25	Task25	OK	Batch
System26	Group26	Task26	OK	Batch
System27	Group27	Task27	OK	Batch
System28	Group28	Task28	OK	Batch
System29	Group29	Task29	OK	Batch
System30	Group30	Task30	OK	Batch

eDirector - My Dashboard

Monitors

Mon1: OK

Mon2: OK

Mon3: OK

Mon4: OK

Home

Go

eCenter - Peak

My Processes



eCenter - Peak

Systems and Groups

System23: Attention

System2: OK

System45: OK

System3: OK

Home

Go

Work Items

All assigned items

Favorites

- Health view
- Systems and Groups
- Monitors
- Tasks
- My Problems
- Run Task

@Center

Attention

Systems and Groups (10)
Monitors (4)
My Tasks (20)

eCenter - Health

eCenter - Health

eCenter - Workspace

Home - My Tasks

Free View

eCenter - Peek

My Tasks

- Classic layout: OK
- My Backup: OK
- Run Commands: OK
- Send feedback: OK
- Install fixes: OK
- Run commands: OK
- Run commands: OK

eCenter - Peek

My Processes



eCenter - Peek

Systems and Groups

- System22: Attention
- System2: OK
- System45: OK
- System3: OK

Home

Go

Director - My Dashboard

